Think Pair-Share

My Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ My Partner’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prompt or Question | What I thought | What my partner thought | What we will share. | Class answer |
| What is force? |  |  |  |  |
| What is motion? |  |  |  |  |
| How does the amount of force exerted on an object affect the way it moves? |  |  |  |  |
| How does the height of the ramp affect how fast an object rolls down it? |  |  |  |  |

Changes of Incline Height and Speed

Directions: change the height of the incline 5 times. Record the height of the incline, the time it took the object to stop, and the distance the object traveled. Once you have collected all of the data insert this page into your interactive notebook.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Trial #1 | Trial #2 | Trial #3 | Trial #4 | Trial #5 | Average |
| Height of Incline | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance:  Time: |
| Height of Incline | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance:  Time: |
| Height of Incline | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance:  Time: |
| Height of Incline | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance traveled:  Time: | Distance:  Time: |

On the next page of your interactive notebook draw a graph of the data in the chart above.

Drawing a Force

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: In the box shown below draw a picture of an object that is being acted on by a force.

|  |
| --- |
|  |

Directions: On the lines provided below describe what is happening in the picture you drew in the box above using your vocabulary words.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Stomp Rocket**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Trial #1  Distance traveled | Trial #2  Distance traveled | Trial #3  Distance traveled | Trial #4  Distance traveled |
| Large force |  |  |  |  |
| Small force |  |  |  |  |

In your interactive notebooks draw a picture of what you observed during the Stomp Rocket activity and label parts of your picture using your vocabulary words.

**Google Doc/Smore Checklist**

\_\_\_\_\_\_\_\_ 1.) Include at least 4 pictures of your group doing the Stomp Rocket or Incline activity .

\_\_\_\_\_\_\_\_ 2.) Explain what happened during your activity using your vocabulary words.

\_\_\_\_\_\_\_\_ 3.) Write a hypothesis of what you thought was going to happen.

\_\_\_\_\_\_\_\_ 4.) Describe what force, motion, inertia, friction, gravity, and speed.

\_\_\_\_\_\_\_\_ 5.) Include a chart of the data you collected from either the Stomp rocket or Incline activity.